

इंटरनेट

मानक

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Whereas the Parliament of India has set out to provide a practical regime of right to information for citizens to secure access to information under the control of public authorities, in order to promote transparency and accountability in the working of every public authority, and whereas the attached publication of the Bureau of Indian Standards is of particular interest to the public, particularly disadvantaged communities and those engaged in the pursuit of education and knowledge, the attached public safety standard is made available to promote the timely dissemination of this information in an accurate manner to the public.

“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 5412 (1969): Saws, Nasal, Joseph's Pattern [MHD 4: Ear, Nose and Throat Surgery Instruments]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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AMENDMENT NO. 1 DECEMBER 1978
TO
IS : 5412-1969 SPECIFICATION FOR SAWS, NASAL, JOSEPH'S PATTERN

Alteration

(Page 1, clause 6.3) — Substitute the following for the existing clause:
6.3 Corrosion Resistance — The instrument shall satisfy the boiling and autoclaving test as prescribed in IS : 7531-1975 'Method for boiling and autoclaving test for corrosion resistance of stainless steel surgical instruments'.

(CPDC 26)



Indian Standard
SPECIFICATION FOR
SAWS, NASAL, JOSEPH'S PATTERN

Surgical Instruments Sectional Committee, CPDC 11, Precision Type Surgical Instruments Subcommittee, CPDC 11(3471)

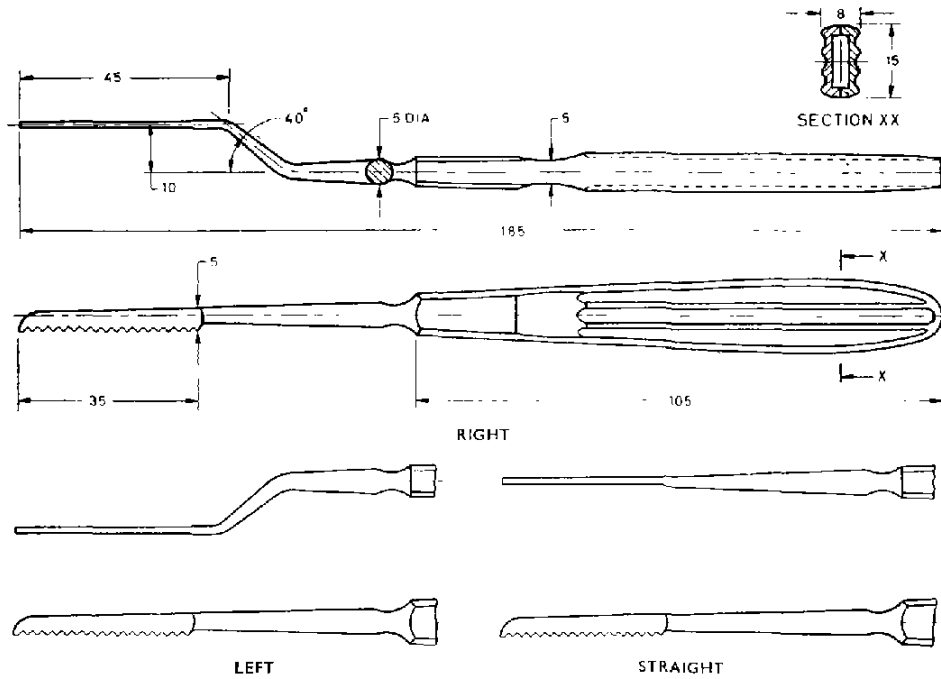
- 1. Scope** — Dimensional and other requirements of nasal saw (Joseph's pattern) used in ENT surgery.
- 2. Shape and Dimensions** — As shown in Fig. 1 and 2.
- 3. Materials**
- Blade — Stainless steel, Designation 30Cr13 of Schedule V of IS : 1570-1961*.
- Handle — Brass, Alloy Grade CuZn30 of IS : 4170-1967† or stainless steel conforming to Designation 04Cr19Ni9 of Schedule V of IS : 1570-1961*.
- 4. Workmanship and Finish**
- 4.1 Blade and handle shall be free from burrs, pits, scale and other defects.
- 4.2 Blade shall be straight, true to shape and size and shall be fixed in the handle by brazing.
- 4.3 Teeth shall be well-cut, sharp, regular in spacing, clean and uniform along the edge.
- 4.4 Blade shall be finished smooth and even except at the teeth.
- 4.5 Blade and stainless steel handles shall be passivated and polished bright.
- 4.6 The brass handle shall be plated chromium over nickel, conforming to Service Grade No. 2 of IS : 4827-1968‡.
- 5. Heat Treatment** — Blade shall be uniformly hardened and tempered to 420 to 480 HV, measured as near to the teeth as possible.
- 6. Tests**
- 6.1 Saw through a well seasoned teak wood piece, 20 mm square three times. The cutting edge of the saw shall show no sign of damage and the cut through the teak wood piece shall be neat.
- 6.2 Grip the handle in a vice with its axis horizontal and with entire length of blade and shank protruding. Apply force at the tip to deflect it by 3 mm in a plane at right angles to its own plane. Release the force. The saw shall not acquire a new set.
- 6.3 *Corrosion Resistance* — Scrub the sample with soap and warm water, rinse in hot water and then dip in 95 percent ethyl alcohol. Dry the sample. Immerse in copper sulphate solution at room temperature for 6 minutes and wash off with fresh water or wet cotton wool. Make up the solution as follows:
- | | |
|---|---------|
| Copper sulphate ($\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$) | 4.0 g |
| Sulphuric acid (H_2SO_4) (sp gr 1.84) | 10.0 g |
| Water (H_2O) | 90.0 ml |
- No red stains or spots on the sample shall be allowed but dulling of polished surface may be permitted.
- 7. Marking** — Mark with the following:
- a) Manufacturer's name, initials or recognized trade-mark, and
 - b) The words ' stainless steel ' on the shank.
- 7.1 ISI Certification Marking** — Details available from Indian Standards Institution, New Delhi 1.
- 8. Packing** — Wrap individually in wax paper or polyethylene bag and pack in cardboard cartons or as agreed to between the purchaser and the supplier.

*Schedules for wrought steels for general engineering purposes.
†Specification for brass rods for general engineering purposes.
‡Specification for electroplated coatings of nickel and chromium on copper and copper alloys.

Adopted 26 November 1969

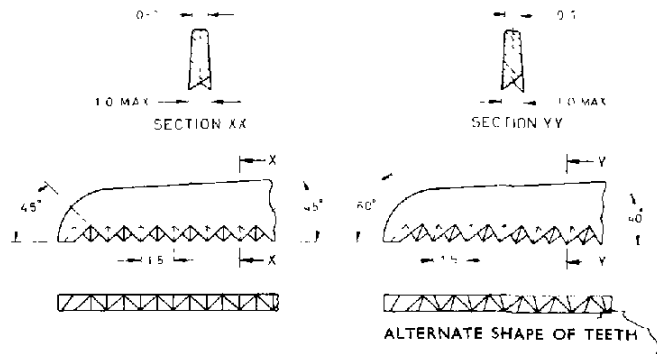
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NEW DELHI 1



All dimensions in millimetres.

FIG. 1 SAW, NASAL, JOSEPH'S PATTERN



All dimensions in millimetres.

FIG. 2 DETAIL OF BLADE